

## **Supplementary information**

# **Diverse *Colletotrichum* species cause anthracnose of tea plants (*Camellia sinensis* (L.) O. Kuntze) in China**

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1      **Supplementary Table S1.** Collection data of *Colletotrichum* species from 15 provinces or  
2      cities in China

| Species               | Isolate NO. | Host   | Location             |
|-----------------------|-------------|--|----------------------|
| <i>C. aenigma</i>     | JS1A9       | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu        |
|                       | JS1A29      | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu        |
| <i>C. camelliae</i>   | AH1B1       | <i>Ca. sinensis</i> cv. <i>Keemenzhong</i>     | Qimen, Anhui         |
|                       | CQ1A10      | <i>Ca. sinensis</i>                            | Yongchuan, Chongqing |
|                       | FJ1A5       | <i>Ca. sinensis</i> cv. <i>Huangguanyin</i>    | Fuzhou, Fujian       |
|                       | GD1A4       | <i>Ca. sinensis</i> cv. <i>Jinxuan</i>         | Guangzhou, Guangdong |
|                       | GZ1A1       | <i>Ca. sinensis</i> cv. <i>Fuding Dabaicha</i> | Tongren, Guizhou     |
|                       | GZ1A2       | <i>Ca. sinensis</i> cv. <i>Fuding Dabaicha</i> | Tongren, Guizhou     |
|                       | GZ2A1       | <i>Ca. sinensis</i> cv. <i>Qianmei 809</i>     | Zunyi, Guizhou       |
|                       | HB1A1       | <i>Ca. sinensis</i>                            | Enshi, Hubei         |
|                       | HB1A2       | <i>Ca. sinensis</i>                            | Enshi, Hubei         |
|                       | HEN1A2      | <i>Ca. sinensis</i> cv. <i>Xinyang</i>         | Xinyang, Henan       |
| <i>C. cliviae</i>     | HUN1A4      | <i>Ca. sinensis</i> cv. <i>Baihaozao</i>       | Changsha, Hunan      |
|                       | JS1A3       | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu        |
|                       | JS1A7       | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu        |
|                       | JS1A10      | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu        |
|                       | JS1A16      | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu        |
|                       | JS1A17      | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu        |
|                       | JS1A20      | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu        |
|                       | JS1A31      | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu        |
|                       | JS1A35      | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu        |
|                       | JS1A41      | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu        |
| <i>C. endophytica</i> | JS1A46      | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu        |
|                       | JX1A2       | <i>Ca. sinensis</i> cv. <i>Fuding Dabaicha</i> | Nanchang, Jiangxi    |
|                       | SC2B7       | <i>Ca. sinensis</i> cv. <i>Mingshan 131</i>    | Meishan, Sichuan     |
|                       | SH1A1       | <i>Ca. sinensis</i> cv. <i>Ziyang</i>          | Hanzhong, Shaanxi    |
|                       | SH1B4       | <i>Ca. sinensis</i> cv. <i>Fuding Dabaicha</i> | Hanzhong, Shaanxi    |
|                       | SH1C1       | <i>Ca. sinensis</i> cv. <i>Nanjiang 1</i>      | Hanzhong, Shaanxi    |
|                       | YN2A1       | <i>Ca. sinensis</i>                            | Puer, Yunan          |
|                       | YN2A2       | <i>Ca. sinensis</i>                            | Puer, Yunan,         |
|                       | ZJ1A5       | <i>Ca. sinensis</i> cv. <i>Longjing 43</i>     | Hangzhou, Zhejiang   |
|                       | ZJ1A8       | <i>Ca. sinensis</i> cv. <i>Longjing 43</i>     | Hangzhou, Zhejiang   |
| <i>C. sinensis</i>    | ZJ1A11      | <i>Ca. sinensis</i> cv. <i>Longjing 43</i>     | Hangzhou, Zhejiang   |
|                       | ZJ2A4       | <i>Ca. sinensis</i>                            | Lishui, Zhejiang     |
| <i>C. sinensis</i>    | AH1A2       | <i>Ca. sinensis</i> cv. <i>Keemenzhong</i>     | Qimen, Anhui         |
|                       | AH1B5       | <i>Ca. sinensis</i> cv. <i>Keemenzhong</i>     | Qimen, Anhui         |
|                       | AH1B6       | <i>Ca. sinensis</i> cv. <i>Keemenzhong</i>     | Qimen, Anhui         |
|                       | ZJ3A4       | <i>Ca. sinensis</i> cv. <i>Longjing 43</i>     | Hangzhou, Zhejiang   |
|                       | ZJ3A9       | <i>Ca. sinensis</i> cv. <i>Longjing 43</i>     | Hangzhou, Zhejiang   |
| <i>C. sinensis</i>    | YN1A3       | <i>Ca. sinensis</i> cv. <i>Menku</i>           | Lincang, Yunnan      |
|                       | YN1A4       | <i>Ca. sinensis</i> cv. <i>Menku</i>           | Lincang, Yunnan      |

|                      |        |  |                      |
|----------------------|--------|--|----------------------|
|                      | YN1A5  | <i>Ca. sinensis</i> cv. <i>Menku</i>           | Lincang, Yunnan      |
| <i>C. fioriniae</i>  | FJ1A1  | <i>Ca. sinensis</i> cv. <i>Fuding Dahaocha</i> | Fuzhou, Fujian       |
|                      | FJ1A2  | <i>Ca. sinensis</i> cv. <i>Huangdan</i>        | Fuzhou, Fujian       |
|                      | SC3A1  | <i>Ca. sinensis</i> cv. <i>Mingshanzao 132</i> | Meishan, Sichuan     |
|                      | SC3A2  | <i>Ca. sinensis</i> cv. <i>Mingshanzao 132</i> | Meishan, Sichuan     |
|                      | ZJ1A1  | <i>Ca. sinensis</i> cv. <i>Longjing 43</i>     | Hangzhou, Zhejiang   |
|                      | ZJ1A2  | <i>Ca. sinensis</i> cv. <i>Longjing 43</i>     | Hangzhou, Zhejiang   |
| <i>C. fructicola</i> | CQ1A5  | <i>Ca. sinensis</i>                            | Yongchuan, Chongqing |
|                      | FJ2B1  | <i>Ca. sinensis</i> cv. <i>Benshan</i>         | Fujian, Quanzhou     |
|                      | FJ2C9  | <i>Ca. sinensis</i> cv. <i>Maoxie</i>          | Quanzhou, Fujian     |
|                      | FJ2C12 | <i>Ca. sinensis</i> cv. <i>Maoxie</i>          | Quanzhou, Fujian     |
|                      | FJ2D2  | <i>Ca. sinensis</i> cv. <i>Tie guanyin</i>     | Fujian, Quanzhou     |
|                      | FJ2D3  | <i>Ca. sinensis</i> cv. <i>Tie guanyin</i>     | Fujian, Quanzhou     |
|                      | GD1A5  | <i>Ca. sinensis</i> cv. <i>Jinxuan</i>         | Guangzhou, Guangdong |
|                      | GX1A1  | <i>Ca. sinensis</i> cv. <i>Guilv 1</i>         | Guilin, Guangxi      |
|                      | GX2A4  | <i>Ca. sinensis</i> cv. <i>Jiukang</i>         | Guilin, Guangxi      |
|                      | HB1A5  | <i>Ca. sinensis</i>                            | Enshi, Hubei         |
|                      | HUN2A1 | <i>Ca. sinensis</i>                            | Changsha, Hunan      |
|                      | JS1A6  | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu        |
|                      | JS1A13 | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu        |
|                      | JS1A21 | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu        |
| <i>C. karstii</i>    | JS1A30 | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu        |
|                      | JS1A37 | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu        |
|                      | SC1A1  | <i>Ca. sinensis</i> cv. <i>Zhongcha 302</i>    | Yibin, Sichuan       |
|                      | SC2A1  | <i>Ca. sinensis</i> cv. <i>Anjibaicha</i>      | Meishan, Sichuan     |
|                      | SC2B2  | <i>Ca. sinensis</i> cv. <i>Mingshan 131</i>    | Meishan, Sichuan     |
|                      | SH1A4  | <i>Ca. sinensis</i> cv. <i>Ziyang</i>          | Hanzhong, Shaanxi    |
|                      | SH1B1  | <i>Ca. sinensis</i> cv. <i>Fuding Dabaicha</i> | Hanzhong, Shaanxi    |
|                      | YN1A1  | <i>Ca. sinensis</i> cv. <i>Menku</i>           | Lincang, Yunnan      |
|                      | YN1A2  | <i>Ca. sinensis</i> cv. <i>Menku</i>           | Lincang, Yunnan      |
|                      | YN2A10 | <i>Ca. sinensis</i>                            | Puer, Yunan          |
|                      | ZJ1A6  | <i>Ca. sinensis</i> cv. <i>Longjing 43</i>     | Hangzhou, Zhejiang   |
|                      | ZJ1A7  | <i>Ca. sinensis</i> cv. <i>Longjing 43</i>     | Hangzhou, Zhejiang   |
|                      | ZJ1A9  | <i>Ca. sinensis</i> cv. <i>Longjing 43</i>     | Hangzhou, Zhejiang   |
|                      | ZJ1A10 | <i>Ca. sinensis</i> cv. <i>Longjing 43</i>     | Hangzhou, Zhejiang   |
|                      | ZJ1B1  | <i>Ca. sinensis</i> cv. <i>Zhongcha 108</i>    | Hangzhou, Zhejiang   |
|                      | ZJ1B2  | <i>Ca. sinensis</i> cv. <i>Zhongcha 108</i>    | Hangzhou, Zhejiang   |
|                      | ZJ3A6  | <i>Ca. sinensis</i> cv. <i>Longjing 43</i>     | Hangzhou, Zhejiang   |
|                      | ZJ3A8  | <i>Ca. sinensis</i> cv. <i>Longjing 43</i>     | Hangzhou, Zhejiang   |
|                      | ZJ3A10 | <i>Ca. sinensis</i> cv. <i>Longjing 43</i>     | Hangzhou, Zhejiang   |
|                      | FJ2A1  | <i>Ca. sinensis</i> cv. <i>Huangjingui</i>     | Quanzhou, Fujian     |
|                      | FJ2A2  | <i>Ca. sinensis</i> cv. <i>Huangjingui</i>     | Quanzhou, Fujian     |
|                      | FJ2C1  | <i>Ca. sinensis</i> cv. <i>Maoxie</i>          | Quanzhou, Fujian     |
|                      | FJ2C6  | <i>Ca. sinensis</i> cv. <i>Maoxie</i>          | Quanzhou, Fujian     |

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|                           |        |  |                    |
|---------------------------|--------|--|--------------------|
|                           | FJ2C8  | <i>Ca. sinensis</i> cv. <i>Maoxie</i>          | Quanzhou, Fujian   |
|                           | FJ2C11 | <i>Ca. sinensis</i> cv. <i>Maoxie</i>          | Quanzhou, Fujian   |
|                           | FJ2C13 | <i>Ca. sinensis</i> cv. <i>Maoxie</i>          | Quanzhou, Fujian   |
|                           | FJ2D1  | <i>Ca. sinensis</i> cv. <i>Tie guanyin</i>     | Quanzhou, Fujian   |
|                           | HUN2A7 | <i>Ca. sinensis</i>                            | Changsha, Hunan    |
|                           | JS1A8  | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu      |
|                           | JS1A14 | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu      |
|                           | YN1A6  | <i>Ca. sinensis</i> cv. <i>Menku</i>           | Lincang, Yunnan    |
|                           | ZJ3A1  | <i>Ca. sinensis</i> cv. <i>Longjing43</i>      | Hangzhou, Zhejiang |
| <i>Colletotrichum</i> sp. | SC3A3  | <i>Ca. sinensis</i> cv. <i>Mingshanzao 132</i> | Meishan, Sichuan   |
| <i>C. siamense</i>        | FJ1A3  | <i>Ca. sinensis</i> cv. <i>Fujian Shuixian</i> | Fuzhou, Fujian     |
|                           | FJ1A4  | <i>Ca. sinensis</i> cv. <i>Fuding Dabaicha</i> | Fuzhou, Fujian     |
|                           | FJ2D4  | <i>Ca. sinensis</i> cv. <i>Tie guanyin</i>     | Fujian, Quanzhou   |
|                           | GX2A1  | <i>Ca. sinensis</i> cv. <i>Jiukang</i>         | Guilin, Guangxi    |
|                           | GX2A3  | <i>Ca. sinensis</i> cv. <i>Jiukang</i>         | Guilin, Guangxi    |
|                           | JX1A1  | <i>Ca. sinensis</i> cv. <i>Fuding Dabaicha</i> | Nanchang, Jiangxi  |
|                           | JX1A3  | <i>Ca. sinensis</i> cv. <i>Fuding Dabaicha</i> | Nanchang, Jiangxi  |
|                           | YN2A9  | <i>Ca. sinensis</i>                            | Puer, Yunnan       |
| <i>C. truncatum</i>       | ZJ3A3  | <i>Ca. sinensis</i> cv. <i>Longjing43</i>      | Hangzhou, Zhejiang |
| <i>C. wuxiense</i>        | JS1A32 | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu      |
|                           | JS1A44 | <i>Ca. sinensis</i>                            | Wuxi, Jiangsu      |

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3 **Supplementary Table S2.** Primers used in this study

| Gene  | Product name  | Primer   | Sequence                        | Reference                             |
|-------|---|----------|---------------------------------|---------------------------------------|
| ACT   | Actin   | ACT-512F | ATG TGC AAG GCC GGT TTC GC      | Carbone and Kohn <sup>1</sup>         |
|       |   | ACT-783R | TAC GAG TCC TTC TGG CCC AT      | Carbone and Kohn <sup>1</sup>         |
| ApMat | Mating type protein and Apn2-Mat1-2 intergenic spacer | AMF1     | TCA TTC TAC GTA TGT GCC CG      | Silva <i>et al.</i> <sup>2</sup>      |
|       |   | AMR1     | CCA GAA ATA CAC CGA ACT TGC     | Silva <i>et al.</i> <sup>2</sup>      |
| CAL   | Calmodulin  | CL1C     | GAA TTC AAG GAG GCC TTC TC      | Weir <i>et al.</i> <sup>3</sup>       |
|       |   | CL2C     | CTT CTG CAT CAT GAG CTG GAC     | Weir <i>et al.</i> <sup>3</sup>       |
| CHS-1 | Chitin synthase                                       | CHS-79F  | TGG GGC AAG GAT GCT TGG AAG AAG | Carbone and Kohn <sup>1</sup>         |
|       |   | CHS-345R | TGG AAG AAC CAT CTG TGA GAG TTG | Carbone and Kohn <sup>1</sup>         |
| GAPDH | Glyceraldehyde-3-phosphate dehydrogenase              | GDF      | GCC GTC AAC GAC CCC TTC ATT GA  | Templeton <i>et al.</i> <sup>4</sup>  |
|       |   | GDR      | GGG TGG AGT CGT ACT TGA GCA TGT | Templeton <i>et al.</i> <sup>4</sup>  |
| GS    | Glutamine synthetase                                  | GSF1     | ATG GCC GAG TAC ATC TGG         | Stephenson <i>et al.</i> <sup>5</sup> |
|       |   | GSR1     | GCC GGT GGA GGA ACC GTC G       | Stephenson <i>et al.</i> <sup>5</sup> |
| ITS   | Internal transcribed spacer                           | ITS-1F   | CTT GGT CAT TTA GAG GAA GTA A   | Gardes and Bruns <sup>6</sup>         |
|       |   | ITS-4    | TCC TCC GCT TAT TGA TAT GC      | White <i>et al.</i> <sup>7</sup>      |
| TUB2  | $\beta$ -Tubulin 2                                    | T1       | AAC ATG CGT GAG ATT GTA AGT     | O'Donnell and Cigelnik <sup>8</sup>   |
|       |   | Bt2b     | ACC CTC AGT GTA GTG ACC CTT GGC | Glass and Donaldson <sup>9</sup>      |

**Supplementary Table S3.** Isolates of the *Colletotrichum* species studied and GenBank accession numbers of the generated sequences

| Species                | Isolate<br>collection  | /Culture                                       | GenBank accessions          |                             |                             |                             |                             |                             |          |       |
|------------------------|--|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------|-------|
|                        |  |  | ITS                         | ACT                         | GAPDH                       | CAL                         | CHS-1                       | TUB2                        | GS       | ApMat |
| <i>C. acutatum</i>     | CBS 112996, ATCC<br>56816*   | JQ005776                                       | JQ005839                    | JQ948677                    |                             |                             | JQ005797                    | JQ005860                    |          |       |
| <i>C. aenigma</i>      | ICMP 18608*<br><b>JS1A9</b><br><b>JS1A29</b> , CGMCC<br><b>3.17883</b> | JX010244<br><b>KU251549</b><br><b>KU251630</b> | JX009443<br><b>KU251629</b> | JX010044<br><b>KU252003</b> | JX009683<br><b>KU251793</b> | JX009774<br><b>KU251897</b> | JX010389<br><b>KU252156</b> | JX010078<br><b>KU252080</b> | KM360143 |       |
| <i>C.aeschynomenes</i> | ICMP 17673, ATCC<br>201874*  | JX010176                                       | JX009483                    | JX009930                    | JX009721                    | JX009799                    | JX010392                    | JX010081                    | KM360145 |       |
| <i>C. alatae</i>       | CBS 304.67, ICMP<br>17919*   | JX010190                                       | JX009471                    | JX009990                    | JX009738                    | JX009837                    | JX010383                    | JX010065                    | KC888932 |       |
| <i>C. alienum</i>      | ICMP 12071*  | JX010251                                       | JX009572                    | JX010028                    | JX009654                    | JX009882                    | JX010411                    | JX010101                    | KM360144 |       |
| <i>C. aotearoa</i>     | ICMP 18537*<br>ICMP 18532  | JX010205<br>JX010220                           | JX009564<br>JX009544        | JX010005<br>JX009906        | JX009611<br>JX009614        | JX009853<br>JX009764        | JX010420<br>JX010421        | JX010113<br>JX010108        | KC888930 |       |
| <i>C. asianum</i>      | ICMP 18580, CBS<br>130418*   | FJ972612                                       | FJ907424                    | FJ972576                    | FJ917506                    | JX009867                    | FJ907439                    | JX010096                    | FR718814 |       |
| <i>C. boninense</i>    | CBS 123755, MAFF<br>305972*  | JQ005153                                       | JQ005501                    | JQ005240                    | JQ005674                    | JQ005327                    | JQ005588                    |                             |          |       |
| <i>C. brasiliense</i>  | CBS 128501*  | JQ005235                                       | JQ005583                    | JQ005322                    |                             | JQ005409                    | JQ005669                    |                             |          |       |
| <i>C. brisbanense</i>  | CBS 292.67*  | JQ948291                                       | JQ949612                    | JQ948621                    |                             | JQ948952                    | JQ949942                    |                             |          |       |
| <i>C. camelliae</i>    | CGMCC 3.14925,<br>LC1364*  | KJ955081                                       | KJ954363                    | KJ954782                    | KJ954634                    |                             | KJ955230                    | KJ954932                    | KJ954497 |       |
|                        | LC3270, LF492  | KJ955151                                       | KJ954428                    | KJ954852                    | KJ954703                    |                             | KJ955298                    | KJ955002                    | KJ954563 |       |
|                        | ICMP 10643, LF897  | JX010224                                       | JX009540                    | JX009908                    | JX009630                    | JX009891                    | JX010436                    | JX010119                    | KJ954625 |       |

|                |                   |                 |                 |                 |                 |                 |                 |                 |                 |
|----------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                | ICMP 18542, LF899 | JX010223        | JX009488        | JX009994        | JX009628        | JX009857        | JX010429        | JX010118        | KJ954627        |
|                | ICMP 10646, LF898 | JX010225        | JX009563        | JX009993        | JX009629        | JX009892        | JX010437        | JX010117        | KJ954626        |
| AH1B1          | <b>KU251562</b>   | <b>KU251643</b> | <b>KU252016</b> | <b>KU251806</b> | <b>KU251910</b> | <b>KU252170</b> | <b>KU252083</b> | <b>KU251704</b> |                 |
| CQ1A10         | <b>KU251575</b>   | <b>KU251656</b> | <b>KU252029</b> | <b>KU251817</b> | <b>KU251923</b> | <b>KU252181</b> | <b>KU252065</b> | <b>KU251705</b> |                 |
| FJ1A5          | <b>KU251576</b>   | <b>KU251657</b> | <b>KU252030</b> | <b>KU251818</b> | <b>KU251924</b> | <b>KU252182</b> |                 |                 |                 |
| GD1A4          | <b>KU251563</b>   | <b>KU251644</b> | <b>KU252017</b> | <b>KU251807</b> | <b>KU251911</b> | <b>KU252171</b> | <b>KU252084</b> | <b>KU251711</b> |                 |
| GZ1A1          | <b>KU251564</b>   | <b>KU251645</b> | <b>KU252018</b> | <b>KU251808</b> | <b>KU251912</b> | <b>KU252172</b> | <b>KU252085</b> | <b>KU251715</b> |                 |
| GZ1A2          | <b>KU251577</b>   | <b>KU251658</b> | <b>KU252031</b> | <b>KU251819</b> | <b>KU251925</b> | <b>KU252183</b> |                 |                 |                 |
| GZ2A1          | <b>KU251578</b>   | <b>KU251659</b> | <b>KU252032</b> | <b>KU251820</b> | <b>KU251926</b> | <b>KU252184</b> |                 |                 |                 |
| HB1A1          | <b>KU251579</b>   | <b>KU251660</b> | <b>KU252033</b> | <b>KU251821</b> | <b>KU251927</b> | <b>KU252185</b> |                 |                 |                 |
| HB1A2          | <b>KU251567</b>   | <b>KU251648</b> | <b>KU252021</b> | <b>KU251810</b> | <b>KU251915</b> | <b>KU252198</b> | <b>KU252087</b> | <b>KU251716</b> |                 |
| HEN1A2         | <b>KU251580</b>   | <b>KU251661</b> | <b>KU252034</b> | <b>KU251822</b> | <b>KU251928</b> | <b>KU252186</b> |                 |                 |                 |
| HUN1A4         | <b>KU251565</b>   | <b>KU251646</b> | <b>KU252019</b> | <b>KU251838</b> | <b>KU251913</b> | <b>KU252173</b> | <b>KU252086</b> | <b>KU251718</b> |                 |
| JS1A3          | <b>KU251583</b>   | <b>KU251664</b> | <b>KU252037</b> | <b>KU251825</b> | <b>KU251931</b> | <b>KU252189</b> |                 |                 |                 |
| JS1A7          | <b>KU251586</b>   | <b>KU251667</b> | <b>KU252040</b> | <b>KU251828</b> | <b>KU251934</b> | <b>KU252192</b> |                 |                 |                 |
| JS1A10         | <b>KU251572</b>   | <b>KU251653</b> | <b>KU252026</b> | <b>KU251840</b> | <b>KU251920</b> | <b>KU252178</b> | <b>KU252092</b> | <b>KU251719</b> |                 |
| JS1A16         | <b>KU251581</b>   | <b>KU251662</b> | <b>KU252035</b> | <b>KU251823</b> | <b>KU251929</b> | <b>KU252187</b> |                 |                 |                 |
| JS1A17         | <b>KU251574</b>   | <b>KU251655</b> | <b>KU252028</b> | <b>KU251816</b> | <b>KU251922</b> | <b>KU252180</b> | <b>KU252093</b> | <b>KU251720</b> |                 |
| JS1A20         | <b>KU251582</b>   | <b>KU251663</b> | <b>KU252036</b> | <b>KU251824</b> | <b>KU251930</b> | <b>KU252188</b> |                 |                 |                 |
| JS1A31         | <b>KU251584</b>   | <b>KU251665</b> | <b>KU252038</b> | <b>KU251826</b> | <b>KU251932</b> | <b>KU252190</b> |                 |                 |                 |
| JS1A35,        | CGMCC             | <b>KU251595</b> | <b>KU251676</b> | <b>KU252049</b> | <b>KU251835</b> | <b>KU251943</b> | <b>KU252157</b> | <b>KU252089</b> | <b>KU251723</b> |
| <b>3.17884</b> |                   |                 |                 |                 |                 |                 |                 |                 |                 |
| JS1A41         |                   | <b>KU251568</b> | <b>KU251649</b> | <b>KU252022</b> | <b>KU251811</b> | <b>KU251916</b> | <b>KU252199</b> | <b>KU252094</b> | <b>KU251725</b> |
| JS1A46         |                   | <b>KU251585</b> | <b>KU251666</b> | <b>KU252039</b> | <b>KU251827</b> | <b>KU251933</b> | <b>KU252191</b> |                 |                 |
| JX1A2          |                   | <b>KU251587</b> | <b>KU251668</b> | <b>KU252041</b> | <b>KU251829</b> | <b>KU251935</b> | <b>KU252193</b> |                 |                 |
| SC2B7          |                   | <b>KU251588</b> | <b>KU251669</b> | <b>KU252042</b> | <b>KU251830</b> | <b>KU251936</b> | <b>KU252194</b> |                 |                 |

|                         |                            |                 |                 |                 |                 |                 |                 |                 |                 |
|-------------------------|----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                         | <b>SH1A1</b>               | <b>KU251594</b> | <b>KU251675</b> | <b>KU252048</b> | <b>KU251791</b> | <b>KU251942</b> | <b>KU252197</b> | <b>KU252088</b> |                 |
|                         | <b>SH1B4</b>               | <b>KU251596</b> | <b>KU251677</b> | <b>KU252050</b> | <b>KU251836</b> | <b>KU251944</b> | <b>KU252158</b> | <b>KU252098</b> | <b>KU251731</b> |
|                         | <b>SH1C1</b>               | <b>KU251589</b> | <b>KU251670</b> | <b>KU252043</b> | <b>KU251831</b> | <b>KU251937</b> | <b>KU252195</b> |                 |                 |
|                         | <b>YN2A1</b>               | <b>KU251597</b> | <b>KU251678</b> | <b>KU252051</b> | <b>KU251837</b> | <b>KU251945</b> | <b>KU252151</b> | <b>KU252091</b> | <b>KU251736</b> |
|                         | <b>YN2A2</b>               | <b>KU251566</b> | <b>KU251647</b> | <b>KU252020</b> | <b>KU251809</b> | <b>KU251914</b> | <b>KU252174</b> | <b>KU252090</b> | <b>KU251737</b> |
|                         | <b>ZJ1A5</b>               | <b>KU251571</b> | <b>KU251652</b> | <b>KU252025</b> | <b>KU251814</b> | <b>KU251919</b> | <b>KU252177</b> | <b>KU252099</b> | <b>KU251741</b> |
|                         | <b>ZJ1A8</b>               | <b>KU251590</b> | <b>KU251671</b> | <b>KU252044</b> | <b>KU251832</b> | <b>KU251938</b> | <b>KU252196</b> |                 |                 |
|                         | <b>ZJ1A11</b>              | <b>KU251570</b> | <b>KU251651</b> | <b>KU252024</b> | <b>KU251813</b> | <b>KU251918</b> | <b>KU252176</b> | <b>KU252096</b> | <b>KU251740</b> |
|                         | <b>ZJ2A4</b>               | <b>KU251573</b> | <b>KU251654</b> | <b>KU252027</b> | <b>KU251815</b> | <b>KU251921</b> | <b>KU252179</b> | <b>KU252097</b> | <b>KU251745</b> |
| <i>C. clidemiae</i>     | ICMP 18658*                | JX010265        | JX009537        | JX009989        | JX009645        | JX009877        | JX010438        | JX010129        | KC888929        |
|                         | ICMP 18706                 | JX010274        | JX009476        | JX009909        | JX009639        | JX009777        | JX010439        | JX010128        |                 |
| <i>C. cordylinicola</i> | MFLUCC 090551, ICMP 18579* | JX010226        | HM470235        | JX009975        | HM470238        | JX009864        | JX010440        | JX010122        | JQ899274        |
| <i>C. cliviae</i>       | CBS 125375*                | GQ485607        | GQ856777        | GQ856756        |                 | GQ856722        | GQ849440        |                 |                 |
|                         | LC3546, 3.17358            | CGMCC           | KJ955215        | KJ954483        | KJ954916        |                 | KJ955361        |                 |                 |
|                         | <b>AH1A2</b>               | <b>KU251492</b> | <b>KU251679</b> | <b>KU251946</b> |                 | <b>KU251841</b> | <b>KU252103</b> |                 |                 |
|                         | <b>AH1B5, 3.17885</b>      | <b>CGMCC</b>    | <b>KU251493</b> | <b>KU251680</b> | <b>KU251947</b> | <b>KU251842</b> | <b>KU252105</b> |                 |                 |
|                         | <b>AH1B6</b>               | <b>KU251494</b> | <b>KU251681</b> | <b>KU251948</b> |                 | <b>KU251843</b> | <b>KU252106</b> |                 |                 |
|                         | <b>ZJ3A4</b>               | <b>KU251515</b> | <b>KU251702</b> | <b>KU251969</b> |                 | <b>KU251864</b> | <b>KU252107</b> |                 |                 |
|                         | <b>ZJ3A9</b>               | <b>KU251516</b> | <b>KU251703</b> | <b>KU251970</b> |                 | <b>KU251865</b> | <b>KU252104</b> |                 |                 |
| <i>C. coccodes</i>      | CBS 369.75*                | HM171679        | HM171667        | HM171673        |                 | JX546681        | JX546873        |                 |                 |
| <i>C. colombiense</i>   | CBS 129818*                | JQ005174        | JQ005522        | JQ005261        |                 | JQ005348        | JQ005608        |                 |                 |
| <i>C. constrictum</i>   | CBS 128504*                | JQ005238        | JQ005586        | JQ005325        |                 | JQ005412        | JQ005672        |                 |                 |
| <i>C. curcumae</i>      | IMI 288937*                | GU227893        | GU227991        | GU228285        |                 | GU228383        | GU228187        |                 |                 |

|                       |                   |                 |                   |                   |                   |                 |                 |                 |                                 |
|-----------------------|-------------------|-----------------|-------------------|-------------------|-------------------|-----------------|-----------------|-----------------|---------------------------------|
| <i>C. dacrycarpi</i>  | CBS 130241*       | JQ005236        | JQ005584          | JQ005323          |                   | JQ005410        | JQ005670        |                 |                                 |
| <i>C. dianesei</i>    | CMM4083, 1300058* | MFLU            | KC329779          | KC517298          | KC517194          | KC517209        |                 | KC517254        | KC430894                        |
| <i>C. endophytica</i> | MFLUCC LC0324*    | 130418, 10-0676 | KC633854 KF242123 | KF306258 KF157827 | KC832854 KF242181 | KF254846        |                 | KC810018        |                                 |
|                       | YN1A3, 3.17886    | CGMCC           | <b>KU251559</b>   | <b>KU251640</b>   | <b>KU252013</b>   | <b>KU251802</b> | <b>KU251907</b> | <b>KU252167</b> | <b>KU252076</b> <b>KU251733</b> |
|                       | YN1A4, 3.17887    | CGMCC           | <b>KU251561</b>   | <b>KU251642</b>   | <b>KU252015</b>   | <b>KU251804</b> | <b>KU251909</b> | <b>KU252169</b> | <b>KU252078</b> <b>KU251734</b> |
|                       | YN1A5             |                 | <b>KU251560</b>   | <b>KU251641</b>   | <b>KU252014</b>   | <b>KU251803</b> | <b>KU251908</b> | <b>KU252168</b> | <b>KU252077</b> <b>KU251735</b> |
| <i>C. fioriniae</i>   | CBS 127600        |                 | JQ948308          | JQ949629          | JQ948638          |                 | JQ948969        | JQ949959        |                                 |
|                       | CBS 128517*       |                 | EF464594          | JQ949613          | EF593344          |                 | JQ948953        | EF593325        |                                 |
|                       | CBS 129916        |                 | JQ948317          | JQ949638          | JQ948647          |                 | JQ948978        | JQ949968        |                                 |
|                       | CBS 129948        |                 | JQ948344          | JQ949665          | JQ948674          |                 | JQ949005        | JQ949995        |                                 |
|                       | CBS 200.35        |                 | JQ948293          | JQ949614          | JQ948623          |                 | JQ948954        | JQ949944        |                                 |
|                       | FJ1A1             |                 | <b>KU251495</b>   | <b>KU251682</b>   | <b>KU251949</b>   |                 | <b>KU251844</b> | <b>KU252203</b> |                                 |
|                       | FJ1A2             |                 | <b>KU251496</b>   | <b>KU251683</b>   | <b>KU251950</b>   |                 | <b>KU251845</b> | <b>KU252204</b> |                                 |
|                       | SC3A1             |                 | <b>KU251508</b>   | <b>KU251695</b>   | <b>KU251962</b>   |                 | <b>KU251857</b> | <b>KU252205</b> |                                 |
|                       | SC3A2, 3.17888    | CGMCC           | <b>KU251509</b>   | <b>KU251696</b>   | <b>KU251963</b>   |                 | <b>KU251858</b> | <b>KU252206</b> |                                 |
|                       | ZJ1A1             |                 | <b>KU251511</b>   | <b>KU251698</b>   | <b>KU251965</b>   |                 | <b>KU251860</b> | <b>KU252207</b> |                                 |
|                       | ZJ1A2             |                 | <b>KU251512</b>   | <b>KU251699</b>   | <b>KU251966</b>   |                 | <b>KU251861</b> | <b>KU252208</b> |                                 |
| <i>C. fructicola</i>  | CBS 125397, 18646 | ICMP            | JX010173          | JX009581          | JX010032          | JX009674        | JX009874        | JX010409        | JX010099                        |
|                       | ICMP 18581,       | CBS             | JX010165          | FJ907426          | JX010033          | FJ917508        | JX009866        | JX010405        | JX010095                        |
|                       |                   |                 |                   |                   |                   |                 |                 |                 | JQ807838                        |

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|                   |        |          |          |          |          |          |          |          |          |
|-------------------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
| 130416*           |        |          |          |          |          |          |          |          |          |
| LC3427,           | LF649  | KJ955191 | KJ954464 | KJ954892 | KJ954742 |          | KJ955338 | KJ955041 | KJ954597 |
| LC3666,           | LF896, | KJ955221 | KJ954489 | KJ954922 | KJ954772 |          | KJ955366 | KJ955071 | KJ954624 |
| ICMP 18656        |        |          |          |          |          |          |          |          |          |
| CQ1A5,<br>3.17889 | CGMCC  | KU251520 | KU251601 | KU251974 | KU251763 | KU251868 | KU252152 | KU252064 | KU251706 |
| FJ2B1             |        | KU251529 | KU251610 | KU251983 | KU251772 | KU251877 | KU252132 |          |          |
| FJ2C9             |        | KU251530 | KU251611 | KU251984 | KU251773 | KU251878 | KU252133 |          |          |
| FJ2C12            |        | KU251540 | KU251621 | KU251994 | KU251783 | KU251888 | KU252143 | KU252053 | KU251709 |
| FJ2D2             |        | KU251531 | KU251612 | KU251985 | KU251774 | KU251879 | KU252134 |          |          |
| FJ2D3             |        | KU251547 | KU251628 | KU252001 | KU251790 | KU251895 | KU252149 | KU252068 |          |
| GD1A5             |        | KU251532 | KU251613 | KU251986 | KU251775 | KU251880 | KU252135 |          |          |
| GX1A1             |        | KU251533 | KU251614 | KU251987 | KU251776 | KU251881 | KU252136 |          |          |
| GX2A4             |        | KU251543 | KU251624 | KU251997 | KU251786 | KU251891 | KU252153 | KU252056 | KU251714 |
| HB1A5             |        | KU251523 | KU251604 | KU251977 | KU251766 | KU251871 | KU252126 | KU252082 | KU251717 |
| HUN2A1            |        | KU251524 | KU251605 | KU251978 | KU251767 | KU251872 | KU252127 |          |          |
| JS1A6             |        | KU251534 | KU251615 | KU251988 | KU251777 | KU251882 | KU252137 |          |          |
| JS1A13            |        | KU251527 | KU251608 | KU251981 | KU251770 | KU251875 | KU252130 |          |          |
| JS1A21            |        | KU251525 | KU251606 | KU251979 | KU251768 | KU251873 | KU252128 |          |          |
| JS1A30            |        | KU251544 | KU251625 | KU251998 | KU251787 | KU251892 | KU252146 | KU252058 | KU251721 |
| JS1A37            |        | KU251521 | KU251602 | KU251975 | KU251764 | KU251869 | KU252154 | KU252061 | KU251724 |
| SC1A1             |        | KU251541 | KU251622 | KU251995 | KU251784 | KU251889 | KU252144 | KU252054 | KU251726 |
| SC2A1             |        | KU251528 | KU251609 | KU251982 | KU251771 | KU251876 | KU252131 |          | KU251729 |
| SC2B2             |        | KU251526 | KU251607 | KU251980 | KU251769 | KU251874 | KU252129 |          |          |
| SH1A4             |        | KU251550 | KU251631 | KU252004 | KU251805 | KU251898 | KU252150 | KU252063 |          |
| SH1B1             |        | KU251569 | KU251650 | KU252023 | KU251812 | KU251917 | KU252175 | KU252095 |          |

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|                           |  |                 |                 |                 |                 |                 |                 |                 |                 |
|---------------------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                           | <b>YN1A1</b>                           | <b>KU251539</b> | <b>KU251620</b> | <b>KU251993</b> | <b>KU251782</b> | <b>KU251887</b> | <b>KU252142</b> | <b>KU252066</b> | <b>KU251732</b> |
|                           | <b>YN1A2</b>                           | <b>KU251537</b> | <b>KU251618</b> | <b>KU251991</b> | <b>KU251780</b> | <b>KU251885</b> | <b>KU252140</b> |                 |                 |
|                           | <b>YN2A10</b>                          | <b>KU251538</b> | <b>KU251619</b> | <b>KU251992</b> | <b>KU251781</b> | <b>KU251886</b> | <b>KU252141</b> |                 |                 |
|                           | <b>ZJ1A6</b>                           | <b>KU251535</b> | <b>KU251616</b> | <b>KU251989</b> | <b>KU251778</b> | <b>KU251883</b> | <b>KU252138</b> |                 |                 |
|                           | <b>ZJ1A7</b>                           | <b>KU251545</b> | <b>KU251626</b> | <b>KU251999</b> | <b>KU251788</b> | <b>KU251893</b> | <b>KU252147</b> | <b>KU252057</b> | <b>KU251742</b> |
|                           | <b>ZJ1A9</b>                           | <b>KU251546</b> | <b>KU251627</b> | <b>KU252000</b> | <b>KU251789</b> | <b>KU251894</b> | <b>KU252148</b> | <b>KU252067</b> | <b>KU251743</b> |
|                           | <b>ZJ1A10</b>                          | <b>KU251522</b> | <b>KU251603</b> | <b>KU251976</b> | <b>KU251765</b> | <b>KU251870</b> | <b>KU252125</b> | <b>KU252062</b> | <b>KU251739</b> |
|                           | <b>ZJ1B1</b>                           | <b>KU251536</b> | <b>KU251617</b> | <b>KU251990</b> | <b>KU251779</b> | <b>KU251884</b> | <b>KU252139</b> |                 |                 |
|                           | <b>ZJ1B2</b>                           | <b>KU251542</b> | <b>KU251623</b> | <b>KU251996</b> | <b>KU251785</b> | <b>KU251890</b> | <b>KU252145</b> | <b>KU252055</b> | <b>KU251744</b> |
|                           | <b>ZJ3A6</b>                           | <b>KU251519</b> | <b>KU251600</b> | <b>KU251973</b> | <b>KU251762</b> | <b>KU251867</b> | <b>KU252124</b> | <b>KU252060</b> | <b>KU251746</b> |
|                           | <b>ZJ3A8</b>                           | <b>KU251518</b> | <b>KU251599</b> | <b>KU251972</b> | <b>KU251761</b> | <b>KU251866</b> | <b>KU252123</b> | <b>KU252059</b> | <b>KU251747</b> |
|                           | <b>ZJ3A10</b>                          | <b>KU251517</b> | <b>KU251598</b> | <b>KU251971</b> | <b>KU251760</b> |                 | <b>KU252122</b> | <b>KU252052</b> |                 |
| <i>C. fructivorum</i>     | Coll1092, BPI 884114,<br>CBS 133135    |                 |                 |                 |                 |                 | JX145184        |                 |                 |
|                           | Coll1414, BPI 884103,<br>CBS 133125*   |                 |                 |                 |                 |                 | JX145196        |                 |                 |
| <i>C. gloeosporioides</i> | IMI 356878, ICMP<br>17821, CBS 112999* | JQ005152        | JQ005500        | JQ005239        | JQ005673        | JQ005326        | JX010445        | JX010085        | JQ807843        |
| <i>C. godetiae</i>        | CBS 133.44*                            | JQ948402        | JQ949723        | JQ948733        |                 | JQ949063        | JQ950053        |                 |                 |
| <i>C. grevilleae</i>      | CBS 132879*                            | KC297078        | KC296941        | KC297010        | KC296963        | KC296987        | KC297102        | KC297033        |                 |
| <i>C. hebeiense</i>       | CGMCC3.17464*                          | KF156863        | KF377532        | KF377495        |                 | KF289008        | KF288975        |                 |                 |
| <i>C. henanense</i>       | LC3030, CGMCC<br>3.17354, LF238*       | KJ955109        | KM023257        | KJ954810        | KJ954662        |                 | KJ955257        | KJ954960        | KJ954524        |
| <i>C. horii</i>           | NBRC 7478, ICMP<br>10492, MTCC 10841*  | GQ329690        | JX009438        | GQ329681        | JX009604        | JX009752        | JX010450        | JX010137        | JQ807840        |
|                           | ICMP 12942                             | GQ329687        | JX009533        | GQ329685        | JX009603        | JX009748        | JX010375        | JX010072        |                 |

|                       |                               |                          |                 |                 |                 |                 |                 |          |          |          |
|-----------------------|-------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------|----------|----------|
| <i>C. jiangxiense</i> | LC3460,<br>3.17362, LF684     | CGMCC<br>3.17363, LF687* | KJ955198        | KJ954469        | KJ954899        | KJ954749        |                 | KJ955345 | KJ955048 | KJ954604 |
|                       | LC3463,<br>3.17363, LF687*    | CGMCC                    | KJ955201        | KJ954471        | KJ954902        | KJ954752        |                 | KJ955348 | KJ955051 | KJ954607 |
| <i>C. johnstonii</i>  | CBS 128532, ICMP<br>12926*    | JQ948444                 | JQ949765        | JQ948775        |                 |                 | JQ949105        | JQ950095 |          |          |
| <i>C. karstii</i>     | CBS 118401                    | JQ005192                 | JQ005540        | JQ005279        |                 |                 | JQ005366        | JQ005626 |          |          |
|                       | CBS 128524, ICMP<br>18588     | JQ005195                 | JQ005543        | JQ005282        |                 |                 | JQ005369        | JQ005629 |          |          |
|                       | CBS 129833                    | JQ005175                 | JQ005523        | JQ005262        |                 |                 | JQ005349        | JQ005609 |          |          |
|                       | CBS 132134, CGMCC<br>3.14194* | HM585409                 | HM581995        | HM585391        |                 |                 | HM582023        | HM585428 |          |          |
|                       | MAFF 306204, ICMP<br>18597    | JQ005196                 | JQ005544        | JQ005283        |                 |                 | JQ005370        | JQ005630 |          |          |
|                       | <b>FJ2A1</b>                  | <b>KU251497</b>          | <b>KU251684</b> | <b>KU251951</b> | <b>KU251748</b> | <b>KU251846</b> | <b>KU252108</b> |          |          |          |
|                       | <b>FJ2A2</b>                  | <b>KU251498</b>          | <b>KU251685</b> | <b>KU251952</b> | <b>KU251749</b> | <b>KU251847</b> | <b>KU252109</b> |          |          |          |
|                       | <b>FJ2C1</b>                  | <b>KU251499</b>          | <b>KU251686</b> | <b>KU251953</b> | <b>KU251750</b> | <b>KU251848</b> | <b>KU252111</b> |          |          |          |
|                       | <b>FJ2C6</b>                  | <b>KU251502</b>          | <b>KU251689</b> | <b>KU251956</b> | <b>KU251753</b> | <b>KU251851</b> | <b>KU252114</b> |          |          |          |
|                       | <b>FJ2C8</b>                  | <b>KU251503</b>          | <b>KU251690</b> | <b>KU251957</b> | <b>KU251754</b> | <b>KU251852</b> | <b>KU252115</b> |          |          |          |
|                       | <b>FJ2C11</b>                 | <b>KU251500</b>          | <b>KU251687</b> | <b>KU251954</b> | <b>KU251751</b> | <b>KU251849</b> | <b>KU252112</b> |          |          |          |
|                       | <b>FJ2C13</b>                 | <b>KU251501</b>          | <b>KU251688</b> | <b>KU251955</b> | <b>KU251752</b> | <b>KU251850</b> | <b>KU252113</b> |          |          |          |
|                       | <b>FJ2D1</b>                  | <b>KU251504</b>          | <b>KU251691</b> | <b>KU251958</b> | <b>KU251755</b> | <b>KU251853</b> | <b>KU252116</b> |          |          |          |
|                       | <b>HUN2A7</b>                 | <b>KU251505</b>          | <b>KU251692</b> | <b>KU251959</b> | <b>KU251756</b> | <b>KU251854</b> | <b>KU252117</b> |          |          |          |
|                       | <b>JS1A8</b>                  | <b>KU251507</b>          | <b>KU251694</b> | <b>KU251961</b> | <b>KU251758</b> | <b>KU251856</b> | <b>KU252119</b> |          |          |          |
|                       | <b>JS1A14</b>                 | <b>KU251506</b>          | <b>KU251693</b> | <b>KU251960</b> | <b>KU251757</b> | <b>KU251855</b> | <b>KU252118</b> |          |          |          |
|                       | <b>YN1A6</b>                  | <b>KU251510</b>          | <b>KU251697</b> | <b>KU251964</b> | <b>KU251759</b> | <b>KU251859</b> | <b>KU252110</b> |          |          |          |

|  | <b>ZJ3A1</b>   | <b>KU251513</b>                              | <b>KU251700</b>                              | <b>KU251967</b>                              |  | <b>KU251862</b>                              | <b>KU252120</b>                              |  |
|--|--|--|--|--|--|--|--|--|
| <i>C. kahawae</i> subsp.<br><i>ciggaro</i> | ICMP 12952<br>IMI 359911, ICMP 17931, CBS 12988<br>ICMP 18534<br>ICMP 18539 <sup>*</sup> | JX010214<br>JX010236<br>JX010227<br>JX010230 | JX009431<br>JX009475<br>JX009473<br>JX009523 | JX009971<br>JX009965<br>JX009904<br>JX009966 | JX009648<br>JX009637<br>JX009634<br>JX009635 | JX009757<br>JX009832<br>JX009765<br>JX009800 | JX010426<br>JX010428<br>JX010427<br>JX010434 | JX010126<br>JX010121<br>JX010116<br>HE655657 |
| <i>C. kahawae</i> subsp.<br><i>kahawae</i> | IMI 301220, ICMP 17811<br>IMI 319418, ICMP 17816 <sup>*</sup><br>IMI 361501, ICMP 17905  | JX010233<br>JX010231<br>JX010232             | JX009555<br>JX009452<br>JX009561             | JX009970<br>JX010012<br>JX010046             | JX009641<br>JX009642<br>JX009644             | JX009817<br>JX009813<br>JX009816             | JX010430<br>JX010444<br>JX010431             | JX010131<br>JX010130<br>JX010127             |
| <i>C. lindemuthianum</i>                   | CBS 144.31 <sup>*</sup>  | JQ005779                                     | JQ005842                                     | JX546712                                     |  | JQ005800                                     | JQ005863                                     |  |
| <i>C. melanocaulon</i>                     | Coll131, BPI 884113, CBS 133251 <sup>*</sup>   | JX145144                                     |  |  |  |  | JX145195                                     | JX145313                                     |
| <i>C. musae</i>                            | CBS 116870, ICMP 19119, MTCC 11349 <sup>*</sup><br>IMI 52264, ICMP 17817                 | JX010146<br>JX010142                         | JX009433<br>JX009432                         | JX010050<br>JX010015                         | JX009742<br>JX009689                         | JX009896<br>JX009815                         | HQ596280<br>JX010395                         | JX010103<br>JX010084                         |
| <i>C. nupharicola</i>                      | CBS 470.96, ICMP 18187 <sup>*</sup><br>CBS 472.96, ICMP 17940                            | JX010187<br>JX010188                         | JX009437<br>JX009582                         | JX009972<br>JX010031                         | JX009663<br>JX009662                         | JX009835<br>JX009836                         | JX010398<br>JX010399                         | JX010088<br>JX010089                         |
| <i>C. orchidearum</i>                      | CBS 632.80 <sup>*</sup>  | JQ948151                                     | JQ949472                                     | JQ948481                                     |  | JQ948812                                     | JQ949802                                     |  |
| <i>C. phormii</i>                          | CBS 118194 <sup>*</sup>  | JQ948446                                     | JQ949767                                     | JQ948777                                     |  | JQ949107                                     | JQ950097                                     |  |

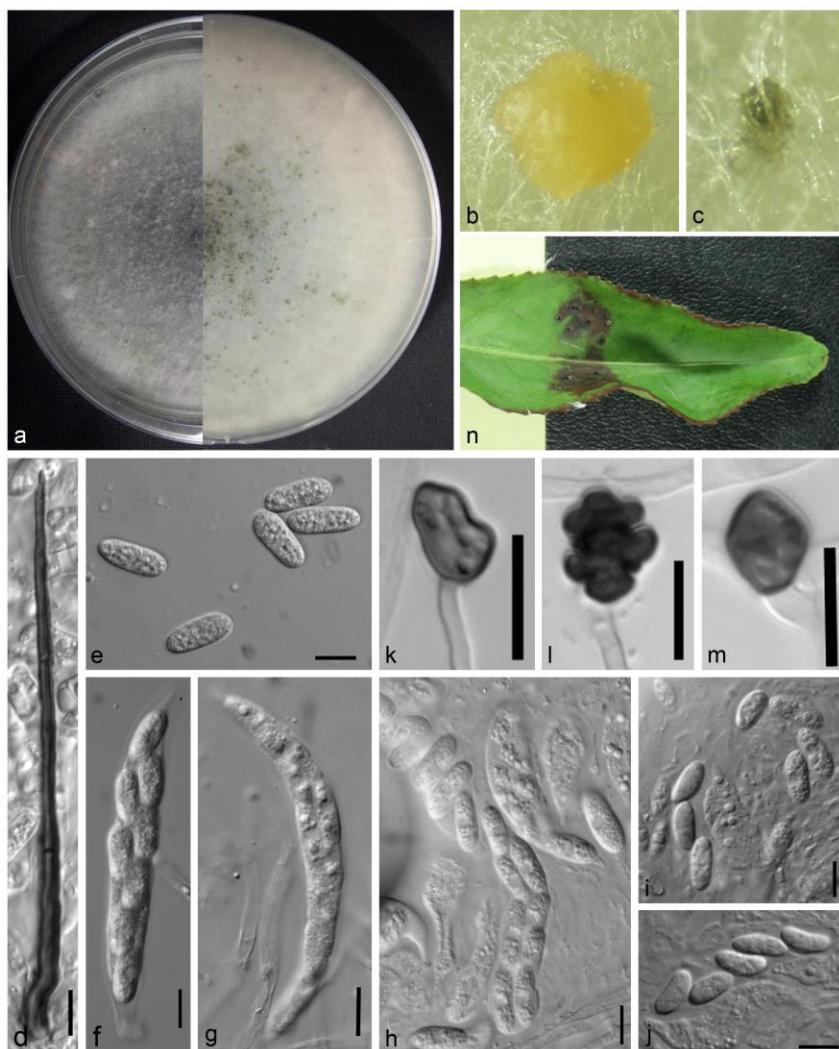
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|---------------------------|--------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <i>C. phyllanthi</i>      | CBS 175.67*                          | JQ005221        | JQ005569        | JQ005308        |                 | JQ005395        | JQ005655        |                 |
| <i>C. proteae</i>         | CBS 132882*                          | KC297079        | KC296940        | KC297009        | KC296960        | KC296986        | KC297101        | KC297032        |
| <i>C. psidii</i>          | CBS 145.29, ICMP<br>19120*           | JX010219        | JX009515        | JX009967        | JX009743        | JX009901        | JX010443        | JX010133        |
| <i>C. queenslandicum</i>  | ICMP 1778*                           | JX010276        | JX009447        | JX009934        | JX009691        | JX009899        | JX010414        | KC888928        |
| <i>C. rhexiae</i>         | Coll1026, BPI 884112,<br>CBS 133134* | JX145128        |                 |                 |                 |                 | JX145179        | JX145290        |
|                           | Coll877, BPI 884110,                 | JX145157        |                 |                 |                 |                 | JX145209        | JX145302        |
|                           | CBS 133132                           |                 |                 |                 |                 |                 |                 |                 |
| <i>C. rusci</i>           | CBS 119206*                          | GU227818        | GU227916        | GU228210        |                 | GU228308        | GU228112        |                 |
| <i>C. salicis</i>         | CBS 607.94*                          | JQ948460        | JQ949781        | JQ948791        |                 | JQ949121        | JQ950111        |                 |
| <i>C. salsolae</i>        | ICMP 19051*                          | JX010242        | JX009562        | JX009916        | JX009696        | JX009863        | JX010403        | JX010093        |
| <i>Colletotrichum</i> sp. | <b>SC3A3, CGMCC<br/>3.17890</b>      | <b>KU251593</b> | <b>KU251674</b> | <b>KU252047</b> | <b>KU251839</b> | <b>KU251941</b> | <b>KU252202</b> | <b>KU252100</b> |
| <i>C. siamense</i>        | CBS 125378, ICMP<br>18642            | JX010278        | GQ856775        | JX010019        | JX009709        | GQ856730        | JX010410        | JX010100        |
|                           | CBS 130420, ICMP                     | HM131511        | HM131507        | HM131497        | JX009713        | JX009895        | JX010415        | JX010105        |
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|                           | CMM3814                              | KC702994        | KC702922        | KC702955        | KC992372        | KC598113        | KM404170        | KJ155453        |
|                           | GC01                                 | KC790972        | KC790619        | KC790733        | KF451951        | KF451986        | KC790866        | KC790671        |
|                           | GZAAS 5.09506*                       | JQ247633        | JQ247657        | JQ247609        | JQ247596        |                 | JQ247644        | JQ247621        |
|                           | ICMP 18578, CBS<br>130417*           | JX010171        | FJ907423        | JX009924        | FJ917505        | JX009865        | JX010404        | JX010094        |
|                           | ITCC 6066                            | JN390914        | KC790651        | KC790764        | KF451966        | KF452001        | KC790897        | KC790701        |
|                           | ITCC 6166                            | JN390871        | KC790662        | KC790773        |                 |                 | KC790908        | KC790712        |
|                           | LC2974, LF182                        | KJ955093        | KJ954375        | KJ954794        | KJ954646        |                 | KJ955242        | KJ954944        |
|                           |                                      |                 |                 |                 |                 |                 |                 | KJ954509        |

|                         |  |                 |                 |                 |                 |                 |                 |                 |
|-------------------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                         | MTCC 11599                             | JQ894681        | JQ894546        | JQ894632        | KC790791        | JQ894617        | JQ894602        | JQ894582        |
|                         | <b>FJ1A3</b>                           | <b>KU251551</b> | <b>KU251632</b> | <b>KU252005</b> | <b>KU251794</b> | <b>KU251899</b> | <b>KU252159</b> | <b>KU252069</b> |
|                         | <b>FJ1A4</b>                           | <b>KU251553</b> | <b>KU251634</b> | <b>KU252007</b> | <b>KU251796</b> | <b>KU251901</b> | <b>KU252160</b> | <b>KU252071</b> |
|                         | <b>FJ2D4</b>                           | <b>KU251552</b> | <b>KU251633</b> | <b>KU252006</b> | <b>KU251795</b> | <b>KU251900</b> | <b>KU252161</b> | <b>KU252070</b> |
|                         | <b>GX2A1,</b><br><b>3.17891</b>        | <b>CGMCC</b>    | <b>KU251555</b> | <b>KU251636</b> | <b>KU252009</b> | <b>KU251798</b> | <b>KU251903</b> | <b>KU252163</b> |
|                         | <b>GX2A3,</b><br><b>3.17892</b>        | <b>CGMCC</b>    | <b>KU251554</b> | <b>KU251635</b> | <b>KU252008</b> | <b>KU251797</b> | <b>KU251902</b> | <b>KU252162</b> |
|                         | <b>JX1A1</b>                           |                 | <b>KU251556</b> | <b>KU251637</b> | <b>KU252010</b> | <b>KU251799</b> | <b>KU251904</b> | <b>KU252164</b> |
|                         | <b>JX1A3</b>                           |                 | <b>KU251557</b> | <b>KU251638</b> | <b>KU252011</b> | <b>KU251800</b> | <b>KU251905</b> | <b>KU252165</b> |
|                         | <b>YN2A9</b>                           |                 | <b>KU251558</b> | <b>KU251639</b> | <b>KU252012</b> | <b>KU251801</b> | <b>KU251906</b> | <b>KU252166</b> |
| <i>C. syzygicola</i>    | MFLUCC 10-0624*                        | KF242094        | KF157801        | KF242156        | KF254859        |                 | KF254880        | KF242125        |
| <i>C. temperatum</i>    | Coll1103, BPI 884098,<br>CBS 133120    |                 | JX145135        |                 |                 |                 | JX145186        | JX145297        |
|                         | Coll883, BPI 884100,<br>CBS 133122*    |                 | JX145159        |                 |                 |                 | JX145211        | JX145298        |
| <i>C. theobromicola</i> | CBS 142.31, ICMP<br>17927, MTCC 10325  | JX010286        | JX009516        | JX010024        | JX009592        | JX009830        | JX010373        | JX010064        |
|                         | MTCC 11350, CBS<br>124945, ICMP 18649* | JX010294        | JX009444        | JX010006        | JX009591        | JX009869        | JX010447        | JX010139        |
| <i>C. ti</i>            | ICMP 4832*                             | JX010269        | JX009520        | JX009952        | JX009649        | JX009898        | JX010442        | JX010123        |
| <i>C. tropicale</i>     | CBS 124949, ICMP<br>18653, MTCC 11371* | JX010264        | JX009489        | JX010007        | JX009719        | JX009870        | JX010407        | JX010097        |
| <i>C. truncatum</i>     | CBS 151.35*                            | GU227862        | GU227960        | GU228254        |                 | GU228352        | GU228156        |                 |
|                         | CBS 182.52                             | GU227866        | GU227964        | GU228258        |                 | GU228356        | GU228160        |                 |
|                         | CBS 195.32                             | GU227865        | GU227963        | GU228257        |                 | GU228355        | GU228159        |                 |

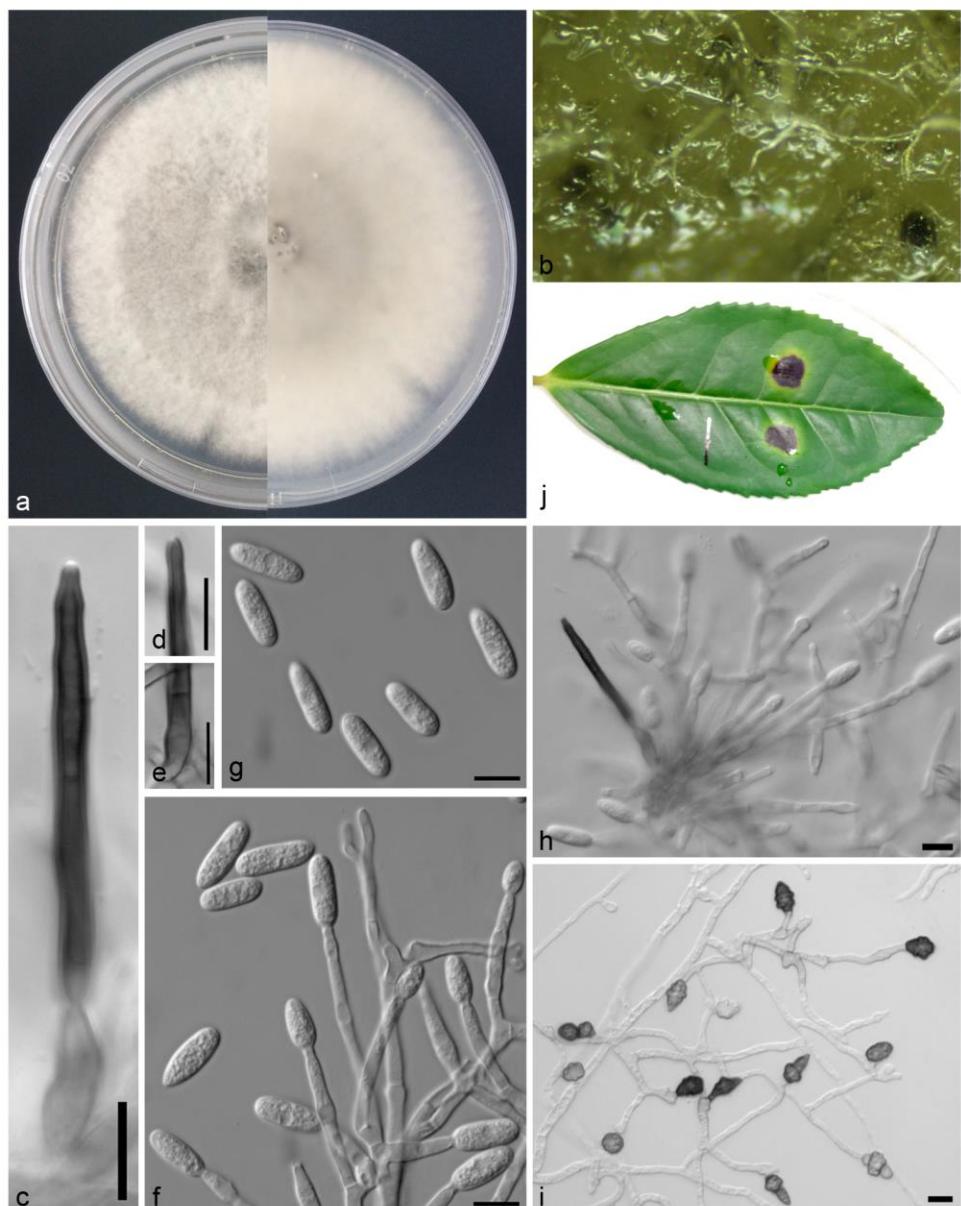
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|                         | CBS 667.88                          | GU227891     | GU227989        | GU228283        |                 | GU228381        | GU228185        |                 |                 |                 |
|                         | <b>ZJ3A3,</b>                       | <b>CGMCC</b> | <b>KU251514</b> | <b>KU251701</b> | <b>KU251968</b> |                 | <b>KU251863</b> | <b>KU252121</b> |                 |                 |
|                         | <b>3.17893</b>                      |              |                 |                 |                 |                 |                 |                 |                 |                 |
| <i>C. viniferum</i>     | GZAAS 5.08601*                      | JN412804     | JN412795        | JN412798        | JQ309639        |                 | JN412813        | JN412787        |                 |                 |
| <i>C. walleri</i>       | CBS 125472*                         | JQ948275     | JQ949596        | JQ948605        |                 | JQ948936        | JQ949926        |                 |                 |                 |
| <i>C. wuxiense</i>      | <b>JS1A32,</b>                      | <b>CGMCC</b> | <b>KU251591</b> | <b>KU251672</b> | <b>KU252045</b> | <b>KU251833</b> | <b>KU251939</b> | <b>KU252200</b> | <b>KU252101</b> | <b>KU251722</b> |
|                         | <b>3.17894</b>                      |              |                 |                 |                 |                 |                 |                 |                 |                 |
|                         | <b>JS1A44</b>                       |              | <b>KU251592</b> | <b>KU251673</b> | <b>KU252046</b> | <b>KU251834</b> | <b>KU251940</b> | <b>KU252201</b> | <b>KU252102</b> |                 |
| <i>C. xanthorrhoeae</i> | BRIP 45094, ICMP 17903, CBS 127831* | JX010261     | JX009478        | JX009927        | JX009653        | JX009823        | JX010448        | JX010138        | KC790689        |                 |

5 CGMCC: China General Microbiological Culture Collection; ATCC: American Type Culture Collection; BPI: U.S. National Fungus Collections, USA; BRIP: Plant  
 6 Pathology Herbarium, Department of Employment, Economic, Development and Innovation, Queensland, Australia; CBS: Culture collection of the Centraalbureau voor  
 7 Schimmelcultures, Fungal Biodiversity Centre, Utrecht, The Netherlands; GZAAS: Guizhou Academy of Agricultural Sciences Herbarium, China; ICMP: International  
 8 Collection of Microorganisms from Plants, Auckland, New Zealand; IMI: Culture collection of CABI Europe UK Centre, Egham, UK; ITCC: Indian Type Culture Collection,  
 9 New Delhi, India; LC: Working collection of Lei Cai, housed at CAS, China; LF: Working collection of Fang Liu, housed at CAS, China; MAFF: MAFF Genebank Project,  
 10 Ministry of Agriculture, Forestry and Fisheries, Tsukuba, Japan; MFLUCC: Mae Fah Luang University Culture Collection, Chiang Rai, Thailand; MTCC: Microbial type  
 11 culture collection and gene bank, India; NBRC: NITE Biological Resource Centre, Japan.

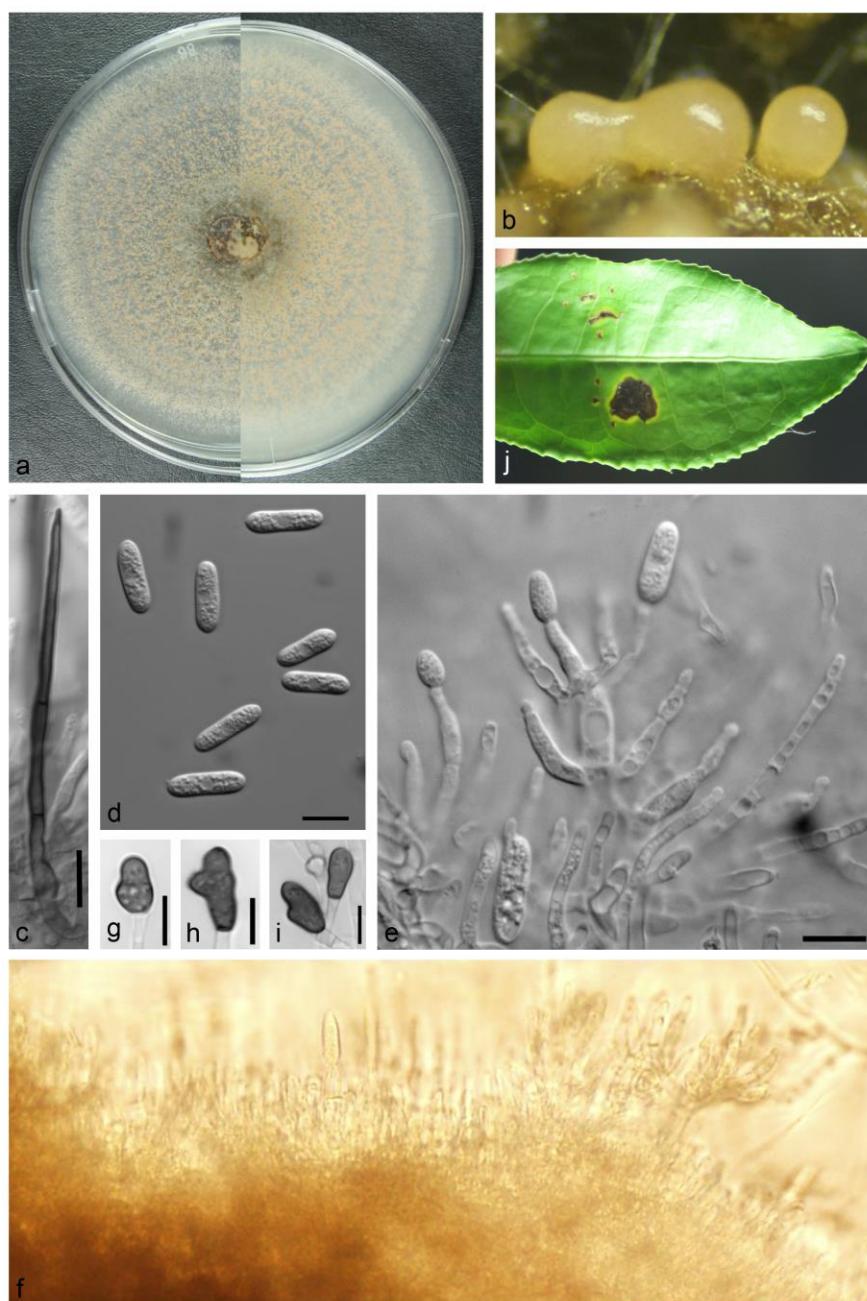
12 \* = ex-type culture. Strains studied in this paper are in bold.



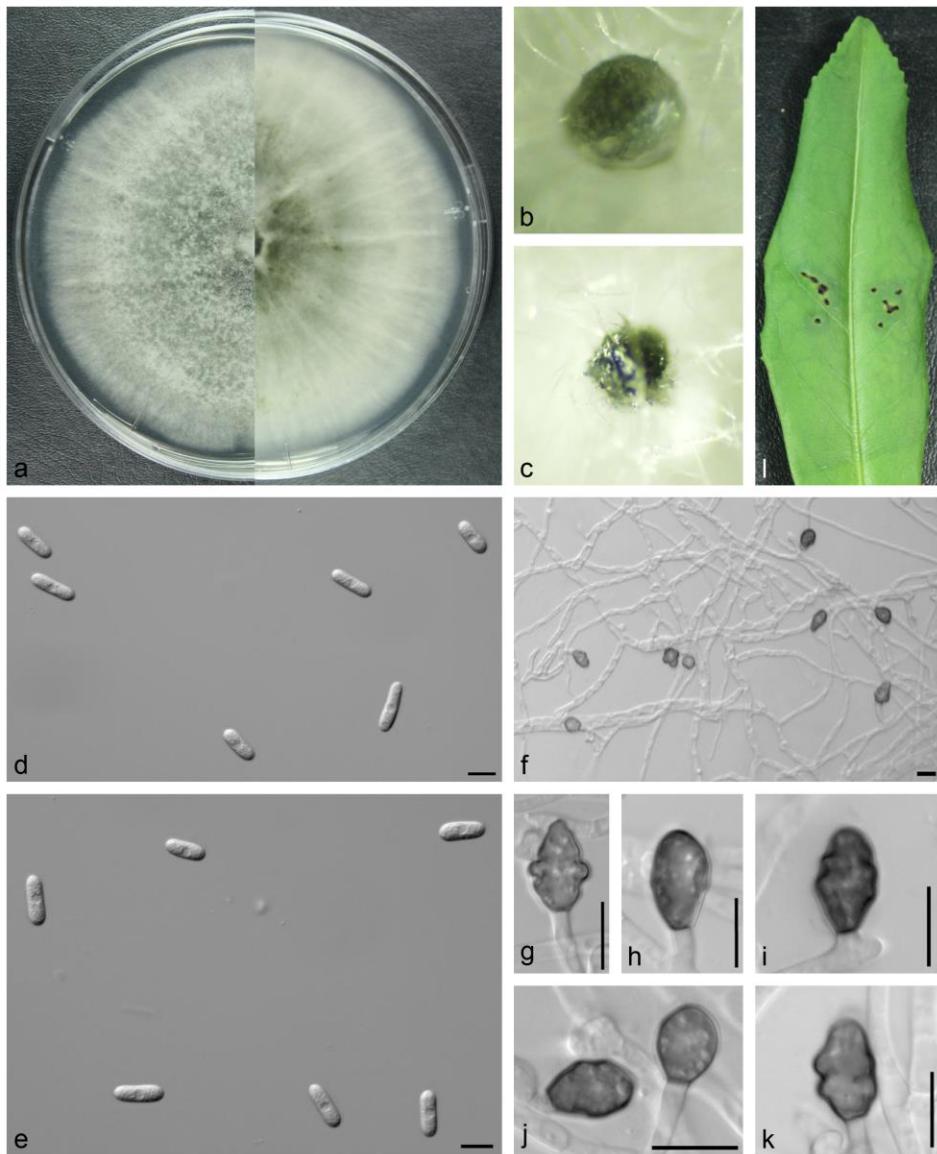
**Supplementary Fig. S1** *Colletotrichum aenigma* (from strain JS1A29). a. colony, upper and reverse; b. acervuli; c. ascomata; d. seta; e. conidia; f-h. ascii; i-j. ascospores; k-m. appressoria; n. induced symptoms on leaf after 14 days. a-j. from PDA agar medium in 7 days; k-m. from SNA agar medium. Scale: 10  $\mu$ m



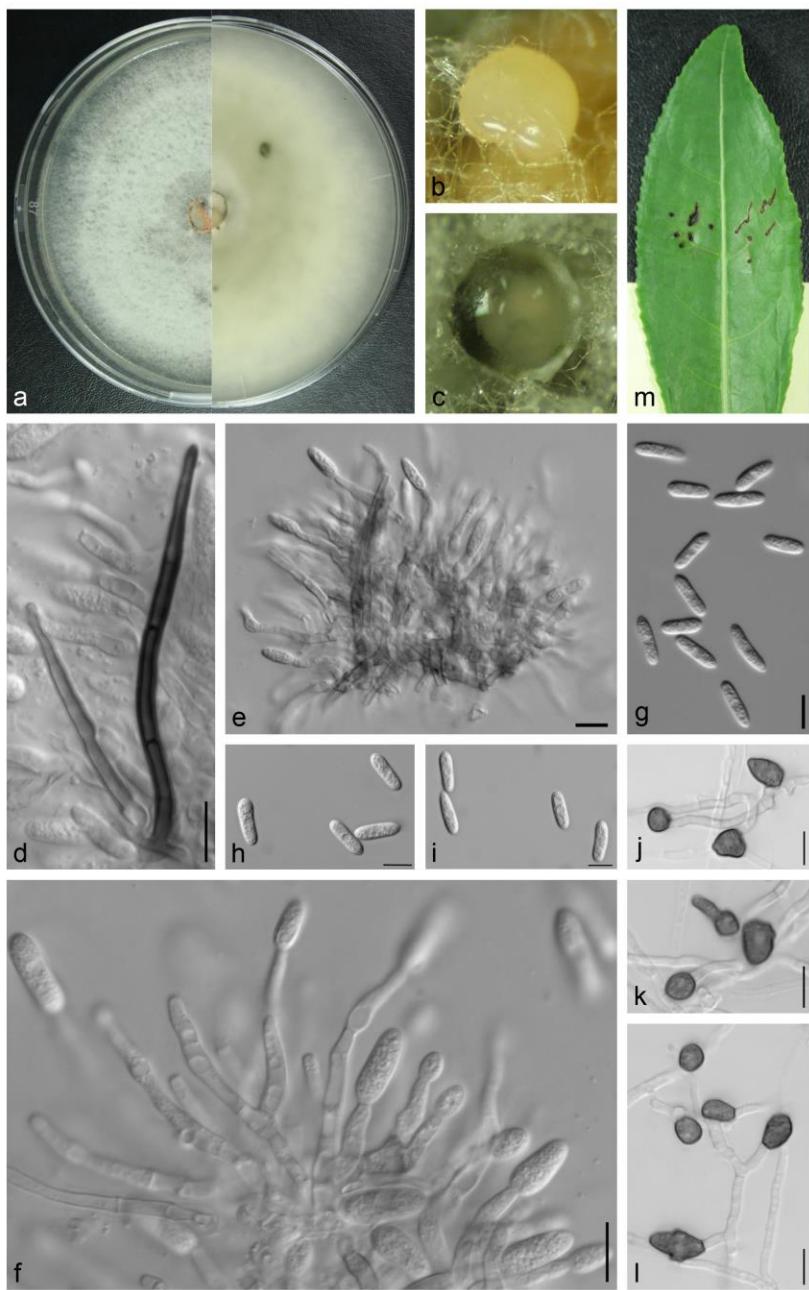
**Supplementary Fig. S2** *Colletotrichum camelliae* (from strain JS1A35). a. colony, upper and reverse; b. Chlamydospores; c-e. seta; f. conidiophores; g. conidia; h. conidiophores and seta; i. appressoria; j. induced symptoms on leaf after 14 days. a-h. from PDA agar medium in 7 days; i. from SNA agar medium. Scale: 10  $\mu\text{m}$



**Supplementary Fig. S3** *Colletotrichum endophytica* (from strain YN1A4). a. colony, upper and reverse; b. acervular; c. seta; d. conidia; e-f. conidiophores; g-i. appressoria; j. induced symptoms on leaf after 14 days. a-f. from PDA agar medium in 7 days; g-i. from SNA agar medium. Scale: 10  $\mu\text{m}$



**Supplementary Fig. S4** *Colletotrichum* sp. (from strain SC3A3). a. colony, upper and reverse; b-c. Chlamydospores; d-e. conidia; f-k. appressoria; l. induced symptoms on leaf after 14 days. a-e. from PDA agar medium in 7 days; f-k. from SNA agar medium. Scale: 10  $\mu\text{m}$



**Supplementary Fig. S5** *Colletotrichum siamense* (from strain GX2A3). a. colony, upper and reverse; b-c. acervular; d. seta; e-f. conidiophores; g-i. conidia; j-l. appressoria; m. induced symptoms on leaf after 14 days. a-i. from PDA agar medium in 7 days; j-l. from SNA agar medium. Scale: 10  $\mu\text{m}$

## Reference

- 1 Carbone, I. & Kohn, L. M. A method for designing primer sets for speciation studies in filamentous ascomycetes. *Mycologia*, 553-556 (1999).
- 2 Silva, D. N. *et al.* Application of the Apn2/MAT locus to improve the systematics of the *Colletotrichum gloeosporioides* complex: an example from coffee (*Coffea* spp.) hosts. *Mycologia* **104**, 396-409 (2012).
- 3 Weir, B. S., Johnston, P. R. & Damm, U. The *Colletotrichum gloeosporioides* species complex. *Stud. Mycol.* **73**, 115-180 (2012).
- 4 Templeton, M. D., Rikkerink, E. H., Solon, S. L. & Crowhurst, R. N. Cloning and molecular characterization of the glyceraldehyde-3-phosphate dehydrogenase-encoding gene and cDNA from the plant pathogenic fungus *Glomerella cingulata*. *Gene* **122**, 225-230 (1992).
- 5 Stephenson, S.-A., Green, J. R., Manners, J. M. & Maclean, D. J. Cloning and characterisation of glutamine synthetase from *Colletotrichum gloeosporioides* and demonstration of elevated expression during pathogenesis on *Stylosanthes guianensis*. *Curr. Genet.* **31**, 447-454 (1997).
- 6 Gardes, M. & Bruns, T. D. ITS primers with enhanced specificity for basidiomycetes-application to the identification of mycorrhizae and rusts. *Mol. Ecol.* **2**, 113-118 (1993).
- 7 White, T. J., Bruns, T., Lee, S. & Taylor, J. Amplification and direct sequencing of fungal ribosomal RNA genes for phylogenetics. *PCR Protoc.: Guide Methods Appl.* **18**, 315-322 (1990).
- 8 O'Donnell, K. & Cigelnik, E. Two divergent intragenomic rDNA ITS2 types within a monophyletic lineage of the fungus fusarium are nonorthologous. *Mol. Phylogenet. Evol.* **7**, 103-116 (1997).
- 9 Glass, N. L. & Donaldson, G C. Development of primer sets designed for use with the PCR to amplify conserved genes from filamentous ascomycetes. *Appl. Environ. Microbiol.* **61**, 1323-1330 (1995).